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APP LICATION NO.	. FILING DATE	FIRST NAMED INVENTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,490	09/19/2003	Jian Li	CEN0312NP	8016
•	7590 04/05/2006		EXAM	INER
PHILIP S. JO JOHNSON &			WOODWARD, CH	ERIE MIĆHELLE
ONE JOHNSO	ON & JOHNSON PLAZA		ART UNIT	PAPER NUMBER .
NEW BRUNS	WICK, NJ 08933-7003		1647	
		•	DATE MAILED: 04/05/2000	· 6

Please find below and/or attached an Office communication concerning this application or proceeding.

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JRJ PAT DKT. SECTION

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions from the time through the state of	OIPE			
10/656,490 LI ET AL. Examiner	(%)		10	
Examiner Cherie M. Woodward The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Examinon of time may be available under the provision of 3 CFR 1.134g, is no event, however, may a steply the time the main of the cover and the cover is the cover of the cover should be considered the coverance of the cover application to the cover of the cover	SEP 0 8 2006			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extression of time may be available under the provisions of 37 CFR 1 136(s). In revent, however, may a copy to simely fise after SIX (s) MONTHS some mening date of the commendation. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term the mining date of this communication. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term the mailing date of the communication. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term the mailing date of this communication. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term anality after of this communication. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term anality and entire the mailing date of this communication. If NO period for reply is specified above, the macroum statutory period will apply and entire SIX (s) MONTHS is term anality and entire the mailing date of this communication. If NO period for reply is specified to see 37 CFR 1.764(b). Status I) □ Responsive to communication (s) filed on 30 January 2008. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Claim(s) ■ 11 Is/are pending in the application. 4a) Of the above claim(s) is a communication. 4b) □ Claim(s) ■ 11 Is/are allowed. Claim (s) ■ 11 Is/are allowed. (c) □ Claim(s) ■ 11 Is/are allowed. (c) □ Claim(s) ■ 11 Is/are allowed. (d) □ Claim(s) ■ 11 Is/are allowed. (e) □ Claim(s) ■ 12 Is/are allowed. (e) □ Claim(s) ■ 13 Is/are allowed. (f) □ Claim(s) ■ 13 Is/are allowed. (g) □ Claim(s) ■ 14 Is/are allowed. (g) □ Claim(s) ■ 14 Is/are allowed. (g) □ Claim(s) ■ 15 Is/are allowed. (g) □ Cla	Office Action Summary		Art Unit	
Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of the ram pty a saliable under the provisions of 37 CF1.13(6), in to event, however, may repty be timely liked **Into period for repty is appealed above, the maintrum fallutory priod will apply and will expire SIX (19 MONTHS from the mailing date of this communication of the provision of the application to period above, the maintrum fallutory priod will apply and will expire SIX (19 MONTHS from the mailing date). **Fallut to repty which the set or decided period for repty (the y statute, case the application to be application for meah BANDORED (5.9 St. 2, ± 13.). **Any repty received by the Office March then there months after the mailing date of this communication, even if smally fised, may reduce any careful parent then displantment. Set 37 CF1 **170(4). **Status** **10 Responsive to communication(s) filed on 30 January 2008. **2a) This action is FINAL 2.0) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) **B-11** is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) ** is/are allowed. 6) Claim(s) ** is/are allowed. 6) Claim(s) **	MORPHY		l'	
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 cFt 11-18(a). In no event, however, may a reply be linely filed after ISK (6) MONTHS from the making date of this communication. If No period for exply is specified above, the maximum attempt prefixed will apply and will explice 30 K; 6) MONTHS from the making date of this communication. Any reply received by the Office later than three morths after the making date of this communication, even if timely filed, may reduce any sented pattern adjustment. Sea 7 CFR 1.70(b). Status 1) □ Responsive to communication(s) filed on 30 January 2006. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) & Jar (slare pending in the application. 4a) Of the above claim(s) is/are allowed. 5) □ Claim(s) & Jar (slare rejected. 7) □ Claim(s) & Jar (slare objected to. 8) □ Claim(s) & Jar (slare objected to. 8) □ Claim(s) & Jar (slare objected to. 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The poetification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of. 1 □ Certified copies of the priority documents have been received in Application No. 3 □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). **See the attached detailed Office action for a list of the certified copies not received. 1) □ Notice of Draftsperson's Pet	Period for Reply	,		
1)	WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory periof - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mai	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a root od will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
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Art Unit: 1647

DETAILED ACTION

Formal Matters

1. Applicants' election without traverse of claims 8-11 in the reply to the Restriction/Election filed on 30 January 2006 is acknowledged. Claims 1-7 and 12-19 have been cancelled by Applicants. Claims 8-11 are under examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 12 August 2005 has been considered. A signed copy is attached hereto.

The reference to the PCT Search Report has been lined through. However, the references contained in the search report are listed on page 1 of the IDS form, individually, and have thus, been considered. The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

Specification

- 3. The disclosure is objected to because of the following informalities:
 - a. There are a series of blank lines on page 5, lines 14-16.
 - b. An extra "0" is listed in the phrase "95%-1000%" on p. 14, line 13.

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- c. TNF-_, page 30, line 35.
- d. There is no web-based reference affiliated with "copewithcytokines.com" (see specification, p. 31, line 5). If the reference is intended to be directed to www.copewithcytokines.de, then the phrase should be corrected to recite the correct web-based reference.

Appropriate correction is required.

4. The use of the trademarks, such as NASBA (page 7, line 28), NEUPOGEN (p. 17, line 9, p. 28, line 5, p. 31), EPOETIN ALPHA (p. 17, line 9, p. 28, line 4, p. 31), LEUKINE (p. 17, line 9, p. 28, line 5, p. 31), numerous trade names on page 22, lines 23-31, including HUMATROPEN (p. 22, line 31), multiple inhalers and nebulizers listed on page 35, have been noted in this application. They should be capitalized wherever they appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

- 5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicants' cooperation is requested in correcting any errors of which Applicants may become aware in the specification.
- 6. The attempt to incorporate subject matter into this application by reference to GenBank Accession numbers and laboratory names of proteins is ineffective because protein and nucleic acid sequences that are an essential part of the invention must be disclosed by sequence. As such, the incorporation by reference to GenBank Accession Numbers and references to proteins by their laboratory names are not in compliance with 37 CFR 1.57. Applicant may overcome the rejection by amending the specification in accordance with 37 CFR 1.57(g). However, no new matter may be introduced.
- 7. The disclosure is objected to under 37 CFR 1.821(d) because a SEQ ID NO is required for any disclosed peptide with four or more amino acids. No SEQ ID NOs have been provided for the amino acid sequences in excess of four amino acids referenced in the disclosure (see i.e. p. 45).

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Claim Rejections - 35 USC § 112, Second Paragraph

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear from the claim, as written, whether the "further" is part of the recited methodor whether what follows is a new method. A remedial suggestion to the claim language would be "A dendritic cell preparation produced by the method of claim 8 further comprising contacting...."

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 11. Claims 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Lardon et al., (Immunology 1997 Aug;91(4):553-9).

The claims recite a preparation of dendritic cells having at least two cell surface markers selected from the group consisting of CD1a, HLA-DR, and CD86, produced by contacting hematopoietic stem or progenitor cells with IL-18. A dendritic cell preparation according to claim 8, produced further by contacting the hematopoietic stem or progenitor cells with a molecule selected from the group consisting of flt-3-ligand, GM-CSF-IL-4, TNF-a, IL-3, c-kit ligand, and fusions of GM-CSF and IL-13. An antigen expressing dendritic cell population produced by the recited process, wherein step a of the process further comprises contacting the hematopoietic stem cell or progenitor cells with a molecule selected from the group consisting of GM-CSF, IL-4, TNF-a, IL-3, c-kit ligand, and fusions of GM-CSF and IL-3.

Lardon et al., teach the generation of dendritic cells from bone marrow progenitors. Phenotypic analysis of dendritic cells with cell surface markers HLA-DR, CD1a, and CD86 are taught at p. 555. The claimed preparations of dendritic cells and antigen-expressing dendritic cells are well known in the art

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(see, i.e. Lardon et al., *supra*). "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted).

12. Claims 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Zitvogel et al., US Patent 6,849,452 (1 February 2005, priority to 2 March 1999) (hereinafter the '452 patent).

The claims recite a preparation of dendritic cells having at least two cell surface markers selected from the group consisting of CD1a, HLA-DR, and CD86, produced by contacting hematopoietic stem or progenitor cells with IL-18. A dendritic cell preparation according to claim 8, produced further by contacting the hematopoietic stem or progenitor cells with a molecule selected from the group consisting of flt-3-ligand, GM-CSF-IL-4, TNF-a, IL-3, c-kit ligand, and fusions of GM-CSF and IL-13. An antigen expressing dendritic cell population produced by the recited process, wherein step a of the process further comprises contacting the hematopoietic stem cell or progenitor cells with a molecule selected from the group consisting of GM-CSF, IL-4, TNF-a, IL-3, c-kit ligand, and fusions of GM-CSF and IL-3.

The '452 patent teaches a preparation of dendritic cells, compositions containing them, and uses thereof (column 2, lines 52-55). The '452 patent also teaches a the use of dendritic cells to prepare a composition intended to activate natural killer (NK) cells *in vivo* (column 2, lines 40-43), including culturing the cells in the presence of IL-18 (column 1, lines 61-63). The bone-marrow derived dendritic cells (column 7, lines 30-31) expressing HLA-DR, CD40, CD80, CD86, CD83, and CD1a are taught at column 6, lines 16-18. The dendritic cells treated with GM-CSF and Flt3L are taught at column 12, lines 9-25. IL-4 is taught at column 4, lines 30-31, and GM-CSF plus IL-13 is taught at column 14, lines 9 and 27. Antigen-stimulated dendritic cells and numerous methods of producing them are taught at column 14, lines 60-67 to column 15, lines 1-67 to column 16, lines 1-18. Specifically, antigen-pulsing is taught at column 15, lines 19-31 and transfecting dendritic cells with a gene encoding an antigenic-specific peptide is taught at column 16, lines 1-18.

NO CLAIM IS ALLOWED.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cherie M. Woodward whose telephone number is (571) 272-3329. The examiner can normally be reached on Monday - Thursday 9:00am-7:30pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CMW

BRENDA BRUMBACK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 1

Application Number	10/866,490
Filing Date	September 19, 2003
First Named Inventor	Jian Li, et al.
Group Art Unit	1646
Exeminer Name	Jiang, Dong
Attorney Docket Number	CEN-312

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		(a maxima)	G CHEO CACASTES C	mm-dd-уууу	relevant figures appear
	6,790,440		Helistrand, et al.	09-14-2004	·
		FORE	EIGN PATENT DOCUMENTS		
72		6,790,440		FOREIGN PATENT DOCUMENTS	FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite -	Foreign Office ³	Petert Doo	ument KindCode ³	Name of Petentee or Applicant of Cled Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	1*
Examiner Signature					Date Conside	ered		

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

v Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if cossible, 4 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Abcandria, VA 22313-1450
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U.S. Premitt and Trademark Office: U.S. Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless if dispressions for form 1448APPTO Application Number 10/686,490 September 19, 2003 Filing Date INFORMATION DISCLOSURE First Named Inventor Jian Li, et al. Group Art Unit 1848 STATEMENT BY APPLICANT Jiang, Dong Examiner Name Attorney Docket Number **CEN-312** OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, city and/or country where published Examiner's initials* PARAJULI, P. et al. "Fit3 Ligand and Granulocyte-Macrophage Colony-Stimulating Factor Preferentially Expand and Stimulate Different Dendritic and T-Cell Subsets'. My Exp. Hematol. October, 2001, Vol. 29, No. 10, pp. 1185-1193. Considered Signature

"EXAMINER: initial if reference obnesidened, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

s Unique citation designation number: 2 Applicant is to place a check mark here if English language Translation is attached.

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SUBMISSION UNDER MPEP 609 D

Application Number 10/686,490
Filing Date September 19, 2003
First Named Inventor Jian LI, et al.
Group Art Unit 1846
Examiner Name Jiang, Dong
Attorney Docket Number CEN-312

Page 1 of 1

Examiner Initials No.¹ Name of Patentee or Applicant of Cited Document Number (Filmown) Pages, Columns, Lines, where relevant incures appear

FOREIGN PATENT DOCUMENTS Pages, Columns, Lines, where retevant passages or relevant figures Foreign Patent Document Name of Patentae or Examiner Ctte Applicant of Cited Document Intiate Office³ Number KindCode³ appear No. 1 OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published Cite No.¹ Exeminer initials* PCT Search Report, PCT/US03/29454, January 14, 2005. CM Date

Notice of References Cited Application/Control No. 10/666,490 Examiner Cherie M. Woodward Applicant(s)/Patent Under Reexamination LI ET AL. Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-6,849,452	02-2005	Zitvogel et al.	435/347
	B	US-			
	С	US-			
	D.	US-			
	E	US-		·	
	F	US			
	G	US-		·	
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	R					
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NON-PATENT DOCUMENTS

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	U	Lardon et al., Immunology 1997 Aug;91(4):553-9
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.